

Amendments to the Claims

This listing of claims replaces all prior versions of claims in the application.

Claim 1 (Currently Amended): A printer apparatus, which is specified by the host to print in logical-page units, and comprises:

a mechanical controller for receiving a printing command, controlling a printing engine that prints on a printing medium, and detecting when there is no said printing medium in said printing engine; and

a printer controller for receiving a printing instruction from said host to print in logical-page units and creating printing ~~data~~ data;

wherein said printer controller calculates the total physical length of said logical-pages after creating said printing data, according to the calculated total physical length of said logical-pages and a physical length of one page of said printing medium, sends said printing command and said printing data to said mechanical controller and controls the detection operation of said mechanical controller for detecting when there is no said printing medium.

Claim 2 (Currently Amended): The printer apparatus of claim 1, wherein

said printer controller creates bitmap data for each logical page as said printing data according to the printing instruction from said host for printing in logical-page units until the total physical length of plurality of said logical pages reaches said physical length of one page of said printing medium, and then sends said print command and said bitmap data in logical-page units to said mechanical controller in said logical-page units.

Claim 3 (Currently Amended): The printer apparatus of claim 1, wherein
said printer controller receives the logical-page lengths from said host, and calculates the
total physical length of said logical-pages.

Claim 4 (Currently Amended): The printer apparatus of claim 1, wherein
said printer controller calculates ~~the~~ a physical length of said total logical pages,
according to ~~the~~ logical-page lengths and number of logical pages received from said host.

Claim 5 (Original): The printer apparatus of claim 1, wherein
said printer engine comprises an engine for printing on a continuous printing medium,
having a set fold length, as said printing medium.

Claim 6 (Currently Amended): The printer apparatus of claim 1, wherein
said printer controller checks ~~said~~ a physical length in said logical-page units.

Claim 7 (Currently Amended): A printer control method for printing in logical-page
units according to a command of a host, the method comprising:
receiving a printing instruction from said host to print in logical-page units;
creating printing data to be printed on a print medium by a print engine according to said
printing instruction:
calculating the total physical length of said logical-pages;
referencing a physical length of one page of said print medium;
sending a printing command and said printing data to a mechanical controller for
controlling said print engine and controlling the detection operation of said mechanical controller

for detecting when there is no said printing medium according to the calculated physical length of said logical-pages and the physical length of one page of said ~~printing~~ print medium.

Claim 8 (Currently Amended): The printer control method of claim 7, wherein
said creating step comprises a step of creating bitmap data for each logical page as said printing data according to the printing instruction from said host for printing in logical-page units until the total physical length of plurality of said logical pages reaches said physical length of one page of said printing medium,

and said sending step comprises a step of sending said print command and said bitmap data in logical-page units to said mechanical controller in said logical-page units.

Claim 9 (Original): The printer control method of claim 7, wherein
said calculating step comprises a step of calculating the total physical length of said logical-pages according to logical-page lengths received from said host.

Claim 10 (Currently Amended): The printer control method of claim 7, wherein
said calculating step comprises a step of calculating the physical length of said total logical pages, according to ~~the~~ logical-page lengths and a number of logical pages received from said host.

Claim 11 (Currently Amended): The printer control method of claim 7, wherein
said printing engine comprises an engine for printing on a continuous printing medium,
having a set fold length, as said ~~printing~~ print medium.

Claim 12 (Currently Amended): The printer control method of claim 7, wherein
said referencing step comprises a step of checking ~~said~~ a physical length in said logical-page
units.